

217/782-2113

JOINT CONSTRUCTION AND OPERATING PERMIT

PERMITTEE

Micro-Biotrol, Inc. Attn: John Kjellstrand 7775 Quincy Street Willowbrook, Illinois 60521

Application No.: 85040074

Applicant's Designation: Sterilizer Subject: GAS STERILIZATION SYSTEM 8

Date Issued: July 23, 1985

Location: 7775 Quincy St., Willowbrook, Illinois

I.D. No.: 043110AAC

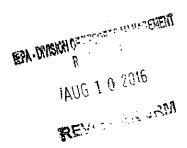
Date Received: April 29, 1985

Operating Permit Expiration

Date: July 31, 1986

Permit is hereby granted to the above-designated Permittee to CONSTRUCT and OPERATE emission source(s) and/or air pollution control equipment consisting of sterilizer 8 as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- During the term of this permit, the permittee shall evaluate, in cooperation with the Agency, methods and procedures for ambient air monitoring of ethylene oxide. The permittee shall finalize such methods and procedures, if available, prior to renewal of this permit.
- During the period of this permit, the Permittee shall evaluate the availability and cost of emission reduction measures for ethylene oxide.





Page 2

3. Emissions of organic materials from the Sterilization Retorts 1, 3, 4, 5, 3, 9 and 10 shall not exceed 99 tons/year. This condition is based on representations of maximum actual emission rates made in the permit application in order to limit emissions to levels below those at which the Agency believes 35 Ill. Adm. Code 203, Subpart B (formerly Rule 1101) would apply. The Agency will revise this condition upon formal request of the Permittee if the requirements of appicable rules would be met by emission sources

Bharat Mathur, P.E. Manager, Permit Section Division of Air Pollution Control

BM:JDC:rmi/1577E/36-37

cc: Region 1



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

STANDARD CONDITIONS FOR CONSTRUCTION/DEVELOPMENT PERMITS ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

July 1, 1985

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) authorizes the Environmental Protection Agency to impose conditions on permits which it issues.

The following conditions are applicable unless susperseded by special condition(s).

- Unless this permit has been extended or it has been voided by a newly issued permit, this permit will expire one
 year from the date of issuance, unless a continuous program of construction or development on this project has
 started by such time.
- 2. The construction or development covered by this permit shall be done in compliance with applicable provisions of the Illinois Environmental Protection Act and Regulations adopted by the Illinois Pollution Control Board.
- 3. There shall be no deviations from the approved plans and specifications unless a written request for modification, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.
- 4. The permittee shall allow any duly authorized agent of the Agency upon the presentation of credentials, at reasonable times:
 - a. to enter the permittee's property where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit,
 - b. to have access to and to copy any records required to be kept under the terms and conditions of this permit,
 - to inspect, including during any hours of operation of equipment constructed or operated under this permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this permit,
 - d. to obtain and remove samples of any discharge or emissions of pollutants, and
 - e. to enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.
- 5. The issuance of this permit:
 - a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located,
 - b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities,
 - c. does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations,
- d. does not take into consideration or attest to the structural stability of any units or parts of the project, and

 IL 532-0226
 APC 166 (Rev. 19/85)

- e. in no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.
- 6. a. Unless a joint construction/operation permit has been issued, a permit for operation shall be obtained from the Agency before the equipment covered by this permit is placed into operation.
 - b. For purposes of shakedown and testing, unless otherwise specified by a special permit condition, the equipment covered under this permit may be operated for a period not to exceed thirty (30) days.
- 7. The Agency may file a complaint with the Board for modification, suspension or revocation of a permit:
 - a. upon discovery that the permit application contained misrepresentations, misinformation or false statements or that all relevant facts were not disclosed, or
 - b. upon finding that any standard or special conditions have been violated, or
 - c. upon any violations of the Environmental Protection Act or any regulation effective thereunder as a result of the construction or development authorized by this permit.

CALCULATION SHEET

Facility Micro - Biotrol Inc	1.D. 043 110 AAC
Anal. Eng. Jim Cobb Date 05 21 85	PN 8504 00 74
Rev. Eng Date	Date Rec. <u>04 29 85</u>

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IL 532-0262 APC 268 3/80 Sheet ____ of ____

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Special Notes



: 043/10 AAC

April 26, 1985

RECEIVED

Mr. James D. Cobb Environmental Protection Engineer Permit Section Division of Air Pollution Control 2200 Churchill Road Springfield, Illinois 62706

APR 29 1985

IEPA - DAPC - SPFLD

Dear Mr. Cobb:

I have enclosed the permit application for the addition of a twelve pallet chamber to our Willowbrook facility that we discussed on the phone a few weeks ago. I will be out of the office the week of April 29th, but will return the following week. I would appreciate the opportunity to discuss this matter with you on my return.

Sincerely,

John A. Kjellstrand

Vice President Technical

John A Ugellstin

JAK/mp

enclosure



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

'	
*DATA AND INFORMATION	
PROCESS EMISSION SOURCE	

*THIS INFORMATION FORM IS TO BE COMPLETED FOR AN EMISSION SOURCE OTHER THAN A FUEL COMBUSTION EMISSION SOURCE OR AN INCINERATOR. A FUEL COMBUSTION EMISSION SOURCE IS A FURNACE, BOILER, OR SIMILAR EQUIPMENT USED PRIMARILY FOR PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. AN INCINERATOR IS AN APPARATUS IN WHICH REFUSE IS BURNED.

1. NAME OF PLANT OWNER: Griffith Laboratories, USA, Inc.	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER): Micro-Biotrol, Inc.
3. STREET ADDRESS OF EMISSION SOURCE:	4. CITY OF EMISSION SOURCE:
7775 Ouincy Street	Willowbrook

GENERAL I	NFORMATION					
5. NAME OF PROCESS:	6. NAME OF EMISSION SOURCE EQUIPMENT:					
Gas Sterilization Treatment	Retort					
7. EMISSION SOURCE EQUIPMENT MANUFACTURER: Hudson Boiler	8. MODEL NUMBER: To Be Assigned	9. SERIAL NUMBER: To Be Assigned				
10. FLOW DIMORAM DESIGNATION(S) OF EMISSION SOURCE:						
VACUUM Retort 11. IDENTITY(S) OF ANY SIMILAR SOURCE(S) AT THE PLANT OR PREM APPLICATION, IDENTIFY THE APPLICATION): N.A.	ISES NOT COVERED BY THE FORM (IF THE	SOURCE IS COVERED BY ANOTHER				
12. AVERAGE OPERATING TIME OF EMISSION SOURCE: 12 HRS/DAY 5 DAYS/WK 52 WKS/YR	13. MAXIMUM OPERATING TIME (
14. PERCENT OF ANNUAL THROUGHPUT: DEC-FEB 25 % MAR-MAY 25 % J	un-aug 25 % sept-nov	25 %				

INSTRUCTIONS

1. COMPLETE THE ABOVE IDENTIFICATION AND GENERAL INFORMATION SECTION.

OPERATING TIME.

- 2. COMPLETE THE RAW MATERIAL, PRODUCT, WASTE MATERIAL, AND FUEL USAGE SECTIONS FOR THE PARTICULAR SOURCE EQUIPMENT.
 COMPOSITIONS OF MATERIALS MUST BE SUFFICIENTLY DETAILED TO ALLOW DETERMINATION OF THE NATURE AND QUANTITY OF POTENTIAL
 EMISSIONS. IN PARTICULAR, THE COMPOSITION OF PAINTS, INKS, ETC., AND ANY SOLVENTS MUST BE FULLY DETAILED.
- 3. EMISSION AND EXHAUST POINT INFORMATION MUST BE COMPLETED, UNLESS EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.
- 4. OPERATING TIME AND CERTAIN OTHER ITEMS REQUIRE BOTH AVERAGE AND MAXIMUM VALUES.
- 5. FOR GENERAL INFORMATION REFER TO "GENERAL INSTRUCTIONS FOR PERMIT APPLICATIONS," APC-201.

DEFINITIONS

AVERAGE - THE VALUE THAT SUMMARIZES OR REPRESENTS THE GENERAL CONDITION OF THE EMISSION SOURCE, OR THE GENERAL STATE OF PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:

AVERAGE OPERATING TIME - ACTUAL TOTAL HOURS OF OPERATION FOR THE PRECEDING TWELVE MONTH PERIOD.

AVERAGE RATE - ACTUAL TOTAL QUANTITY OF "MATERIAL" FOR THE PRECEDING TWELVE MONTH PERIOD, DIVIDED BY THE AVERAGE

AVERAGE OPERATION - OPERATION TYPICAL OF THE PRECEDING TWELVE MONTH PERIOD, AS REPRESENTED BY AVERAGE OPERATING TIME AND AVERAGE RATES.

MAXIMUM - THE <u>GREATEST</u> VALUE <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR <u>ATTAINABLE</u> OR

MAXIMUM OPERATING TIME - GREATEST EXPECTED TOTAL HOURS OF OPERATIONS FOR ANY TWELVE MONTH PERIOD.

MAXIMUM RATE - GREATEST QUANTITY OF "MATERIAL" EXPECTED PER ANY ONE HOUR OF OPERATION.

MAXIMUM OPERATION - GREATEST EXPECTED OPERATION, AS REPRESENTED BY MAXIMUM OPERATING TIME AND MAXIMUM RATES.

IL 532-0250 APC 220 Rev. 1/27/77

PAGE 1 OF 3

RAW MATERIAL	. INFORMA	TION				
NAME OF RAW MATERIAL	PEI	AVERAGE RA R IDENTICAL SC		MAXIMUM RATE PER IDENTICAL SOURCE		
200. Ethylene Oxide	ь.	11.7	LB/HR	с.	11.7	L B/HR
or Propylene Oxide	ь.	2.0	LB/HR	c.	2.0	LB/HR
or Freon-12 (and Ethylene Oxide(1))	b.	5.9	LB/HR	c.	6.0	LB/HR
23a.	b.	,	LB/HR	с,		LB/HR
240.	Ь.		LB/HR	c.	3	LB/HR

(1) Ethylene Oxide included in 20a

		PRODUCT INFORMATION	N.A.		<u>.</u> .
;	NAME OF PRODUCT	AVER PER IDEN	MAXIMUM RATE PER IDENTICAL SOURCE		
30a.		ь.	LB/HR	с.	LB/HR
31a.		ь.	LB/HR	с.	LB/HR
32a.	-	. ь.	LB/HR	с.	LB/HR
33a.		ь.	LB/HR	с.	LB/HR
34a.	•	b.	LB/HR	с.	LB/HR

NAME OF WASTE MATERIAL		GE RATE ICAL SOURCE	MAXIMUM RATE PER IDENTICAL SOURCE
40a.	. b.	c. LB/HR	LB/HF
41a.	, b.	LB/HR	LB/HI
42a.	b.	c. LB/HR	LB/H
43a.	, b.	LB/HR c.	LB/H
44a.	b.	LB/HR c.	LB/H

FUEL USED			TYPE	HEAT CONTENT		
50a. NATURAL GAS		ь.		 c. 1000 BTU/SCF		
OTHER GAS			•		BTU/SCF	
OIL				 	BTU/GAL	
COAL					BTU/LB	
OTHER					BTU/LB	

^{*}THIS SECTION IS TO BE COMPLETED FOR ANY FUEL USED DIRECTLY IN THE PROCESS EMISSION SOURCE, E.G. GAS IN A DRYER, OR COAL IN A MELT FURNACE.

•			*EMISSION	N INFORMAT	TION
51. NUMBER OF	IDENTICAL SOURCE	S (DESCRIBE AS RE	QUIRED):	1 Reto	ort
	· · · · · · · · · · · · · · · · · · ·		AVERAC	GE OPERATIO	N
CONTAMINANT	CONCENTRATION SOURCE	OR EMISSION	METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE		
PARTICULATE MATTER	52a. N.A.	Ь. GR/SCF		LB/HR	c.
CARBON MONOXIDE	53a. N.A.	PPM b. (VOL)		LB/HR	c.
OXIDES E.O.	54a.	PPM b.	11.7	LB/HR	c. Calculation based on 12 month Operation Log (See Attached)
ORGANIC MATERIALP . O .	55a.	PPM b. (VOL)	2.0	LB/HR	c.
SULFUR DIOXIDEL F/12	56a. ——	PPM b. (VOL)	5.9	L8/HR	c. , ,,
**OTHER (SPECIFY)	57a. N.A.	PPM b.		LB/HR	с.
			JMIXAM	JM OPERATI	0N
CONTAMINANT	CONCENTRATI SOURCE	ON OR EMISSION	RATE PER IDENT	TICAL	METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	58a. N.A.	GR/SCF b.		LB/HR	c.
CARBON MONOXIDE	59a. N.A.	PPM b. (VOL)		LB/HR	с.
NITROGEN OXIDES	60a.	PPM b. (VOL)	11.7	LB/HR	Calculation based on maximum operation time available (Attached
ORGANIC MATERIAL P.O.	61a. ——	PPM b.	2.0	LB/HR	c. 11
SULFUR F/12	62a.	PPM b. (VOL)	6.0	LB/HR	с. п
** OTHER (SPECIFY)	63a. N.A.	РРМ Б. (VOL)	•	LB/HR	с,

^{*} ITEMS 52 THROUGH 63 NEED NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.
***OTHER" CONTAMINANT SHOULD BE USED FOR AN AIR CONTAMINANT NOT SPECIFICALLY NAMED ABOVE. POSSIBLE OTHER CONTAMINANTS
ARE ASBESTOS, BERYLLIUM, MERCURY, VINYL CHLORIDE, LEAD, ETC.

		*** EXHAL	JST POINT	INFORMATIO	NO		
64,	FLOW DIAGRAM DESIGNATION(S) OF EXHAUS	T POINT:					•
				mospher			
65.	DESCRIPTION OF EXHAUST POINT (LOCATION	IN RELATIO	N TO BUIL	DINGŠ, DIRE	CTION, HOODING, ETC.):		
	Roof top Northeast end	of bu	ildin	q (RE:	Drawing MB-2	03-A)	
66.	EXIT HEIGHT ABOVE GRADE:			67. EXIT	DIAMETER:	•	
	40 to 50 feet			<u>.</u>	3"		
68.	GREATEST HEIGHT OF NEARBY BUILDINGS:			69. EXIT	DISTANCE FROM NEAREST PL	ANT BOUNDARY:	
	24		FT		6.4		FT
	AVERAGE OPERATION				MAXIMUM O	PERATION	
70.	EXIT GAS TEMPERATURE:			72. EXIT	GAS TEMPERATURE:		
		200	оF			200	oF
<i>7</i> 1.	GAS FLOW RATE THROUGH EACH EXIT:			73. GAS	FLOW RATE THROUGH EACH	EACH EXIT:	
		173 ,	ACFM			173	ACFM

^{***} THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

FILABORATORIES U.S.A.

State of Illinois
Environmental Protection Agency
Division of Air Pollution Control

Equipment Not Previously Permitted

EXHIBIT B

(a) Equipment Description

<u>Equipment</u> .	Size	Serial No.	Model No.
Retort No.1	56 1/2"w x 75 3/4"h x 270"1	7001	СН 669 А
Retort No. 3	60"w x 72"h x 264"1	7002	CH 703 A
Retort No. 4	42"w x 71 3/4"h x 160"1	4501	CH 601 A
Retort No. 5	42"w x 71 3/4"h x 160"1	4502	CH 601 A
Retort No. 9	60"w x 72"h x 264"1	7109	CH 724 A
Retort No. 10	54"w x 79"h x 270"1	To be Cons	structed(1)

EXHIBIT B

(b) Equipment History

The equipment listed in (a) above is original equipment (i) except for Retort No. 10 which will replace existing equipment (ii).(2)

(c) Schedule '

Anticipated commencement of Construction is July 12, 1984 and the anticipated start-up of equipment is October 1984.

- (1) Serial No. and Model No. will be submitted in future when construction is complete.
- (2) Retorts 2, 6, 7 & 8

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL DATA AND INFORMATION PROCESS EMISSION SOURCE

RE: GENERAL INSTRUCTIONS FORM APC-201

The form is completed for all the "identical" retorts as if for one item of equipment (APC 201 (9)).

12. Average Operating Time of Emission Source

1983 Calender Gas Usage

EO	80,000	lbs.	62%	wt.
PO	16,540	lbs.	13%	wt.
12/88	32,400	lbs.	25%	wt.

128,940 lbs.

E0 cycle 1.5 oz./cf = 62 lbs. for 660 cf vessel E0 cycle .75 oz./cf = 31 lbs. for 660 cf vessel

PO cycle 1.75 oz./cf = 72 lbs. avg. per PO cycle 12/88 cycle 0 500 mg/l = 170 lbs. avg. per 12/88 cycle

 $\frac{80,000 \text{ lbs.}}{54 \text{ lbs./cycle}} = 1481 \text{ retorts/yr.} - 52 = 28.5 \text{ retorts/wk.}$

 $\frac{16,540 \text{ lbs.}}{72 \text{ lbs./cycle}}$ = 230 retorts/yr. - 52 = 4.4 retorts/wk.

 $\frac{32,400 \text{ lbs.}}{170 \text{ lbs./cycle}} = 191 \text{ retorts/yr.} - 52 = 3.7 \text{ retorts/wk.}$

36 retorts/wk. x 6 pallets/retort = 216 pallets/wk + 5 = 43.2 pallets/day

43.2 pallets per day = 1.44 turns per day x 8 hr. avg. = 11.52 hr. avg. per (5 retorts) cycle day avg.



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 2200 CHURCHILL ROAD SPRINGFIELD, ILLINOIS 62706

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter III 1/2, Section 1039, Disclosure of this information is required under that Section, Failure to do so may prevent this form from being processed and could result in your application being denied. This form whas been approved by the Forms Management Center.

· · · ·			Ÿ		FOR AG	SENCY USE ONLY
	APPLICATION FO	A PERMIT.			1113	HOAAC
		()	D 1 -	I. D. NO.	~ .'	
	LXI CONSTRUCT	☑ OPERATE Joint/		PERMIT NO.	<u>85</u>	040074
			103(c)			سريم مره
	OF EQUIPMENT TO BE	instion Custom	. (6)	DATE	<u> </u>	-29-85
CONS	TRUCTED OR OPERATED <u>Gas Steril</u>	tzation system	(B)			
	-					
la.	NAME OF OWNER:		2a. NAME (OF OPERATOR:		
	iffith Laboratories, U	SA. Inc.		-Biotrol,	Inc.	
	STREET ADDRESS OF OWNER:			ADDRESS OF OPERA		
	200 South Central Avenu	ıe İ	7775	Quincy St	reet	
	CITY OF OWNER:		2c. CITY (OF OPERATOR:		
Al.	sip		Willo	wbrook		
1d.	STATE OF OWNER:	le. ZIP CODE:	2d. STATE	OF OPERATOR:		2e. ZIP CODE:
IL		60658	IL			60521
		<u> </u>				
3a.	NAME OF CORPORATE DIVISION OR PLANT:		3b, STREE	T ADDRESS OF EMIS	SION SOURCE:	
Mi	cro-Biotrol Inc., Midw	est Region 🕛	7775 C	uincy Str	eet	
3c.	CITY OF EMISSION SOURCE:	3d. LOCATED WITHIN CITY			COUNTY:	3g. ZIP CODE:
Wi	llowbrook	LIMITS: YES NO	Downers	Grove D	u Page	60521
4.	ALL CORRESPONDENCE TO: (TITLE AND/OR N.	AME OF INDIVIDUAL)	5. TELEPI	HONE NUMBER FOR A	GENCY TO CALL:	
	John Kjellstrand 312/325-6999					
6.	6. ADDRESS FOR CORRESPONDENCE: (CHECK ONLY ONE) 7. YOUR DESIGNATION FOR THIS APPLICATION: (C) STERILIZER					
MOWNER: OPERATOR LEMISSION SOURCE STERILIZER						
	<u> </u>					
8.	THE UNDERSIGNED HEREBY MAKES APPLICATION FURTHER CERTIFIES THAT ALL PREVIOUSLY ST	N FOR A PERMIT AND CERTIF IRMITTED INFORMATION REFE	TES THAT THE RENCED IN TH	STATEMENTS CONTA	INED HEREIN ARE MAINS TRUE, CORR	TRUE AND CORRECT, AND RECT AND CURRENT.
	BY AFFIXING HIS SIGNATURE HERETO HE FUR	THER CERTIFIES THAT HE IS	SAUTHORIZED	TO EXECUTE THIS A	APPLICATION.	
ŀ	AUTHORIZED SIGNATURE(S):(D)					
	1 1 1 1 1 1			111	11 11 11	- 11200
	BY Wongld E. algur	e 4/26/85	ВУ	Wen A K	Jelly K	1-26-85 DATE
	SIGNATURE G. C.C.	e 4/26/85 RECE	1116	1 dillitione		5,,,,
1		11 12 0 0		John A. K		1a
	TYPED OR PRINTED NAME OF SIGNER President/Micro-Bio	tral trape 2	o 1085 '	Vice Pres		echnical
•		cror, they it -		TILE OF SIGNER	ident le	CiliiCai
ł	TITLE OF SIGNER	IEDA DAG				D TUTO POOL NAV
(A)	(A) THIS FORM IS TO PROVIDE THE AGENCY WITH GENERAL INFORMATION ABOUT THE SQUIPMENT TO BE CONSTRUCTED OR OPERATED. THIS FORM MAY ONLY BE USED TO REQUEST ONE TYPE OF PERMIT - CONSTRUCTION OR OPERATION - AND NOT BOTH.					
(B)	ENTER THE GENERIC NAME OF THE EQUIPMENT PURSUANT TO THIS APPLICATION. THIS FOR	TO BE CONSTRUCTED OR OP M MUST BE ACCOMPANIED BY	ERATED. THIS OTHER APPLIC	S NAME WILL APPEAR CABLE FORMS AND IN	R ON THE PERMIT WIFORMATION.	WHICH MAY BE ISSUED
(C) PROVIDE A DESIGNATION IN ITEM 7 ABOVE WHICH YOU WOULD LIKE THE AGENCY TO USE FOR IDENTIFICATION OF YOUR EQUIPMENT. YOUR DESIGNATION WILL BE REFERENCED IN CORRESPONDENCE FROM THIS AGENCY RELATIVE TO THIS APPLICATION. YOUR DESIGNATION MUST NOT EXCEED TEN (10) CHARACTERS.				PMENT. YOUR ATION <u>MUST NOT</u>		
(D)	THIS APPLICATION MUST BE SIGNED IN ACCO "ALL APPLICATIONS AND SUPPLEMENTS THERE CONTROL EQUIPMENT, OR THEIR AUTHORIZED	TO SHALL BE SIGNED BY TH	E OWNER AND (OPERATOR OF THE E	IISSION SOURCE O	R AIR POLLUTION
	IF THE OWNER OR OPERATOR IS A CORPORATION OF THE CORPORATION'S BOARD OF DIRECTORS OPERATION OF THE EQUIPMENT TO BE COVERED	ON, SUCH CORPORATION MUS AUTHORIZING THE PERSONS	T HAVE ON FII	LE WITH THE AGENC	A CERTIFIED CO	PY OF A RESOLUTION

9.	DOES THIS APPLICATION CONTAIN A PLOT PLAN/MAP: YES NO				
i).	IF A PLOT PLAN/MAP HAS PREVIOUSLY BEEN SUBMITTED, SPECIFY:				
ı''	AGENCY I.D. NUMBER 0 4 3 1 1 0 A A C APPLICATION NUMBER 8 4 0 6 0 0 0 2				
	15 THE APPROXIMATE SIZE OF APPLICANT'S PREMISES LESS THAN 1 ACT YES NO: SPECIFY 2 9 ACRES	CRE?			
10.	DOES THIS APPLICATION CONTAIN A PROCESS FLOW DIAGRAM(S)	THAT ACCURATELY AND CLEARLY REPRESENTS CURRENT PRACTICE.			
	Previously submitted. See #9	above.			
11a.	WAS ANY EQUIPMENT, COVERED BY THIS APPLICATION, OWNED OR CONTRACTED FOR, BY THE APPLICANT PRIOR TO APRIL 14, 1972:	11b. HAS ANY EQUIPMENT, COVERED BY THIS APPLICATION, NOT PREVIOUSLY RECEIVED AN OPERATING PERMIT:			
	YES X NO	▼ YES □ NO			
	IF "YES", ATTACH AN ADDITIONAL SHEET, EXHIBIT A, THAT: (a) LISTS OR DESCRIBES THE EQUIPMENT (b) STATES WHETHER THE EQUIPMENT WAS IN COMPLIANCE WITH THE RULES AND REGULATIONS GOVERNING THE CONTROL OF AIR POLLUTION PRIOR TO APRIL 14, 1972.	IF "YES", ATTACH AN ADDITIONAL SHEET, EXHIBIT B, THAT: (a) LISTS OR DESCRIBES THE EQUIPMENT (b) STATES WHETHER THE EQUIPMENT (i) IS ORIGINAL OR ADDITIONAL EQUIPMENT (ii) REPLACES EXISTING EQUIPMENT, OR (iii) MODIFIES EXISTING EQUIPMENT (c) PROVIDES THE ANTICIPATED OR ACTUAL DATES OF THE COMMENCEMENT OF CONSTRUCTION AND THE START-UP OF THE EQUIPMENT			
12.	IF THIS APPLICATION INCORPORATES BY REFERENCE A PREVIOUSLY	GRANTED PERMIT(S), HAS FORM APC-210, "DATA AND INFORMATION			
	INCORPORATION BY REFERENCE" BEEN COMPLETED. Tyes X NO				
		APPLICATION PRODUCE AIR CONTAMINANT EMISSION IN EXCESS OF			
	APPLICABLE STANDARDS:				
	☐ YES ☒ NO IF "YES," HAS FORM APC-203, "OPERATION DURING STARTUP"	BEEN COMPLETED FOR THIS SOURCE:			
	YES NO				
	14. DOES THIS APPLICATION REQUEST PERMISSION TO OPERATE AN EMISSION SOURCE DURING MALFUNCTIONS OR BREAKDOWNS:				
ONLY	YES MO IF "YES," HAS FORM APC-204, "OPERATION DURING MALFUNCTION AND BREAKDOWN" BEEN COMPLETED FOR THIS SOURCE:				
O L	YES NO				
PERMIT	15. IS AN EMISSION SOURCE COVERED BY THIS APPLICATION SUBJE	CT TO A FUTURE COMPLIANCE DATE:			
ATING	IF "YES," HAS FORM APC-202, "COMPLIANCE PROGRAM & PRO	JECT COMPLETION SCHEDULE, " BEEN COMPLETED FOR THIS SOURCE:			
RATI	YES NO				
APPLICATION FOR OPER	16. DOES THE FACILITY COVERED BY THIS APPLICATION REQUIRE AN ACTION PLANS):	N EPISODE ACTION PLAN (REFER TO GUIDELINES FOR EPISODE			
ű	YES 🛣 NO				
<u>z</u> <u>o</u>	17. WAS THIS OPERATION THE SUBJECT OF A VARIANCE PETITION F JUNE 13, 1972:	ILED WITH THE ILLINOIS POLLUTION CONTROL BOARD ON OR BEFORE			
₹	YES X NO				
APPL	IF "YES," CITE: PCB NUMBER(S), D	ATE OF BOARD ORDER			
	WAS CONSTRUCTION OR MODIFICATION OF EQUIPMENT, SUFF GOVERNING THE CONTROL OF AIR POLLUTION" EFFECTIVE PRI	ICIENT TO ACHIEVE COMPLIANCE WITH THE "RULES AND REGULATIONS OR TO APRIL 14, 1972, COMMENCED PRIOR TO APRIL 14, 1972:			
	TYES NO N.A. IF "YES," EXPLAIN IN DETAIL, AND IDENTIFY EXPLANATION AS	S EVUIRIT D			
18.	LIST AND IDENTIFY ALL FORMS, EXHIBITS, AND OTHER INFORMATIC				
	NUMBERS ON EACH ITEM (ATTACH ADDITIONAL SHEETS IF NECESSA				
Cer For Pro Pro Equ	m APC 220 Pp. 4-6 Ret	nt Outline P. 15 t Plan/Map MB-145-B P. 16 ort Room Layout MB-203-A P. 17 lding/Property 1261-R A-1 P. 18			
Rat	e Calculations Pp. 11-13 nt Picture & General Location P. 14	TOTAL NUMBER OF PAGES 18			
rra	no riccure a General Gocation P. 14	TOTAL NUMBER OF PAGES I O			

CERTIFIED COPY OF RESOLUTION

I, Gregory L. Schmidt, Secretary of Griffith Laboratories, USA Inc., a Delaware Corporation, having custody of the corporate records thereof, do hereby certify that the Board of Directors adopted the following resolution during a Meeting of the Board of Directors, on May 23, 1984, which is in accordance with the law and the by-laws of said corporation.

RESOLVED, by the Board of Directors of the Company that it authorize Ralph A. Sair, its Senior Vice President or Donald E. Alguire or John Kjellstrand, respectively, President and Vice President of the Company's division, Micro-Biotrol Company, to cause or allow the construction or operation of the equipment to be covered by the Illinois Environmental Protection Agency permit to construct and operate such equipment at the Micro-Biotrol facilities at 7775 Quincy Street, Willowbrook, Illinois 60521.

In witness whereof, I have hereunto subscribed my name as Secretary and have caused the corporate seal of said corporation to be hereunto affixed, this 31st day of May, 1984.

Secretary

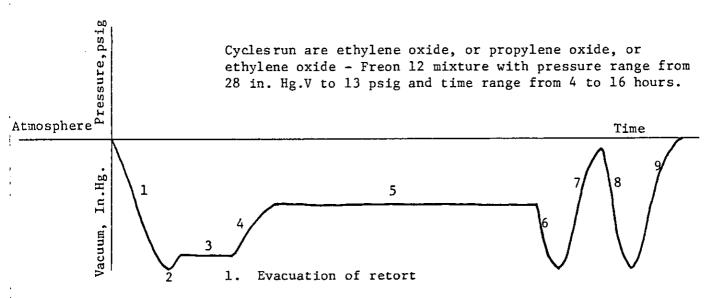
(Corporate Seal)

GRIFFITH LABORATORIES U.S.A.

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL

PROCESS DESCRIPTION

1. Typical Process Description



- 2. Steam injection for product humidification
- 3. Hold for a period of time
- 4. Gas injection into retort; EO or PO or mixture of EO and F-12 (1)
- 5. Hold for a period of time
- Evacuation of gas from retort and discharge to atmosphere
- 7. Air inbleed to retort
- 8. Evacuation of air-gas mixture from retort and discharge to atmosphere
- 9. Air inbleed to retort to atmosphere pressure
 - (1) E0 = ethylene oxide P0 = Propylene oxide
 F-12 = Freon-12



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL

Process Description (cont.)

- 2. Equipment
 - Retort, ref. Exhibit B
 - Vacuum Pump
 - Vaporizer
 - Air Inbleed Filter
- 3. Vessel Equipment Interdependence
 - Evacuation system and gas vaporizer dedicated to retort.





STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL EQUIPMENT NOT PREVIOUSLY PERMITTED

Exhibit B

(a) Equipment Description

Equipment	<u>Size</u>	Serial # Model #
Retort #9	54" Wide 79" High 540" Long	To Be Constructed (1)

Equipment History

- (b) Equipment listed in (a) above is additional equipment (i)
- (c) Schedule
 - Anticipated commencement of construction is May 1, 1985 and the anticipated start up of equipment is September, 1985.
- (1) Serial and Model number will be submitted in future when construction is complete.



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL DATA AND INFORMATION PROCESS EMISSION SOURCE

RE: GENERAL INSTRUCTIONS FORM APC-201

12. Average Operating Time of Emission Source

1984 Calendar Gas Usage

EO cycle 1.5 oz./cf = 132 lbs. for 1410 cf vessel EO cycle .75 oz./cf = 66 lbs. for 1410 cf vessel

PO cycle 1.75 oz./cf = 154 lbs. avg. per PO cycle 12/88 cycle @ 500 mg/1 = 363 lbs. avg. per 12/88 cycle

 $\frac{39,840 \text{ lbs.}}{116 \text{ lbs./cycle}} = 343 \text{ retorts/yr.} \div 52 = 6.6 \text{ retorts/wk.}$

 $\frac{7,330 \text{ lbs.}}{154 \text{ lbs./cycle}}$ = 48 retorts/yr. ÷ 52 = 0.9 retorts/wk.

 $\frac{24,642 \text{ lbs.}}{363 \text{ lbs./cycle}} = 68 \text{ retorts/yr.} \div 52 = 1.3 \text{ retorts/wk.}$

8.8 retorts/wk. x 12 pallets/retort = 106 pallets/wk ÷ 5 = 21
pallets /day

21 pallets per day = 1.76 turns per day x 8 hr. avg. = 14 hr.

12 pallets/retort per retort cycle day avg.



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL

DATA AND INFORMATION PROCESS EMISSION SOURCE

Use 14 hours/day retort average operating time.

14 hrs./day x 5 days/wk. x 52 wk./yr. = 3,661 hrs./yr.

However, emissions only occur during re-evacuation of retort which takes approximately 45 minutes for first re-evacuation and 30 minutes for second re-evacuation for a total of 75 minutes per cycle.

14 hours/day retort avg. = 1.75 turns or cycles per retort per day.
8 hours per cycle avg.

 $\frac{1.75 \text{ turns per retort}}{\text{day}} \times \frac{75 \text{ minutes emission}}{\text{turn per retort}} = \frac{2.2 \text{ hours emission avg.}}{\text{day}}$

2.2 hrs./day x 5 days/wk. x 52 wks./yr. = 569 hrs./yr.

AVERAGE RATE

 $\frac{39,840 \text{ lbs. EO}}{3,662 \text{ hrs.}} = 10.9 \text{ lbs./hr. avg. per retort*}$

 $\frac{7,330 \text{ lbs. PO}}{3,661 \text{ hrs.}} = 2.0 \text{ lbs./hr. avg. per retort}$

24,642 lbs. 12/88 3,661

.12 x 24,642 = $\frac{2,957 \text{ lbs. EO}}{3,661}$ = 0.8/hr. avg. per retort*

.88 x 24,642 = $\frac{21,685 \text{ lbs. F12}}{3,661}$ = 5.9 lb./hr. avg. per retort

*Combine 10.9 lb./hr. 0.8 lb./hr. 11.7 lb./hr EO



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL

DATA AND INFORMATION PROCESS EMISSION SOURCE

13. Maximum Operating Time of Emission Source

3 turns per day for the 12 pallet retort or 24 hours/day per retort or 24 x 5 x 52 = 6.240 hr./yr.

3 turns per retort x 75 min. emission = 225 min. may emission = 3.75 hr/day

turn - retort

or $3.75 \times 5 \times 52 = 975 \text{ hr./yr.}$

day

1 retort x 3 turns = $\frac{3 \text{ retorts/day max}}{1 \text{ x } 12 \text{ pallets/retort}}$ = 36 pallets/day

 $36 \times 5 = 180 \text{ pallets/wk.}$

MAXIMUM RATE

day

(75% of retorts)(3 retorts/day max.)(116 lbs/cycle EO) =261 lbs/day 56% out (10% of retorts)(3 retorts/day max.)(154 lbs/cycle PO) = 46 lbs/day 10% out

(15% of retorts) (3 retorts/day max.) (363 lbs/cycle 12/88) = $\frac{163 \text{ lbs/day}}{470 \text{ lbs/day}}$ 34% out

EO: 261 lbs/day x 5 x 52 = $\frac{67,860}{6,240}$ lbs/yr = 10.9 lbs/hr.

PO: 46 lbs/day x 5 x 52 = $\frac{11,960}{6,240}$ lbs/yr = 1.9 lbs/hr.

F12: 143 lbs/day x 5 x 52 = $\frac{37,294}{6,240}$ lbs/yr = 6.0 lbs/hr.

EO: 20 lbs/day x 5 x 52 = $\frac{5,086}{6,240}$ lbs/yr = 0.8 lbs/hr.

EO = 10.9 + 0.8 = 11.7 lb/hr retort

PO = = 2.0 lb/hr retort

F12 = 6.0 lb/hr retort

SEE LARGE FORMAT MAP OR PLAN SHEET

DOCUMENT DESCRIPTION:

Tie #:	
Document ID #:	2669530
Site #:	043110AAC
Site Name:	STERIGENICS US LLC
Cat #:	03K
Document Date:	07/30/1984
Permit #:	84060002
Log #:	
Keyword:	
Comment:	

	Type or Description of Plan/Drawing	SEE COLOR	Date of Plan	Figure/Diagram
1.	MICRO-BIOTROL CO. MIDWEST REGION. PLOT/PLAN WILLOW BROOK PLANT	No	5/31/1984	MB-145-B
2.				
3.		,		
4.				
5.				
6.				
7.				
8.				
9.				

IL 532-2702 LPC 602 5/2008

SEE LARGE FORMAT MAP OR PLAN SHEET

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Document ID #:	2669530
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Cat #:	03K
Document Date:	07/30/1984
Permit #:	84060002
Log #:	
Keyword:	
Comment:	

	Type or Description of Plan/Drawing	SEE COLOR	Date of Plan	Figure/Diagram
1.	PROPOSED ADDITION AT EAST END OF WILLOW BROOK FACILITY	No	4/8/1985	MB-203-A
2.				
3.				
4.				
5.			·	
6.			-	
7.				
8.				
9.				

IL 532-2702 LPC 602 5/2008

SEE LARGE FORMAT MAP OR PLAN SHEET

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Document Date:	07/30/1984
Permit #:	84060002
Log #:	
Keyword:	
Comment:	

	Type or Description of Plan/Drawing	SEE COLOR	Date of Plan	Figure/Diagram
1.	SITE PLAN & ELEVATIONS 44,939 S.F. OFFICE AND WAREHOUSE, WILLOWBROOK EXECUTIVE PLAZA, WILLOWBROOK, IL.	No	4/2/1976	1261-R
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				

IL 532-2702 LPC 602 5/2008